

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IT 03/00455

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04B10/18

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)  
INSPEC, EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>EP 1 263 155 A (ASTON PHOTONIC TECHNOLOGIES LT) 4 December 2002 (2002-12-04) cited in the application paragraph '0003! - paragraph '0005! paragraph '0013! - paragraph '0027! paragraph '0078! paragraph '0093! - paragraph '0103! paragraph '0117! - paragraph '0120! paragraph '0143! - paragraph '0159! figures 1,3,6,10,11,14,16 ---</p> <p style="text-align: center;">-/-</p>	1-22

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

10 March 2004

Date of mailing of the international search report

25/03/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>SANG-GYU PARK ET AL: "Intra-channel nonlinearities and dispersion-management in highly dispersed transmission"          IEICE TRANSACTIONS ON COMMUNICATIONS, APRIL 2003, INST. ELECTRON. INF. &amp; COMMUN. ENG, JAPAN, vol. E86-B, no. 4, pages 1205-1211, XP002273096          ISSN: 0916-8516          the whole document</p> <p>---</p>	1-22
Y	<p>ZOU X Y ET AL: "LIMITATIONS IN 10 GB/S WDM OPTICAL-FIBER TRANSMISSION WHEN USING A VARIETY OF FIBER TYPES TO MANAGE DISPERSION AND NONLINEARITIES"          JOURNAL OF LIGHTWAVE TECHNOLOGY, IEEE, NEW YORK, US, vol. 14, no. 6, 1 June 1996 (1996-06-01), pages 1144-1152, XP000598520          ISSN: 0733-8724          the whole document</p> <p>---</p>	1-22
A	<p>US 6 480 658 B1 (GAUTHERON OLIVIER ET AL)          12 November 2002 (2002-11-12)          column 1, line 52 -column 2, line 27          column 3, line 19 -column 4, line 10          column 5, line 32 -column 7, line 42          figure 1</p> <p>---</p>	1-22
A	<p>KUMAR S ET AL: "Intrachannel nonlinear penalties in dispersion-managed transmission systems"          IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, MAY-JUNE 2002, IEEE, USA, vol. 8, no. 3, pages 626-631, XP002273097          ISSN: 1077-260X          cited in the application          the whole document</p> <p>---</p>	1-22

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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PCT/IT 03/00455

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 1263155	A 04-12-2002	EP WO US	1263155 A1 02098027 A1 2003039436 A1	04-12-2002 05-12-2002 27-02-2003
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